The drawing(s) filed (insert date) 12-18-01 are:

## NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

	DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:	8.	ARRANGEMENT OF VIEWS. 37 CFR 1.84(i) Words do not appear on a horizontal, left-to-right fashion
	Black ink. Color.  Color drawings are not acceptable until petiton is granted.  Fig(s)  Fig(s)	٥	when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s)
2.	Pencil and non black ink not permitted. Fig(s) PHOTOGRAPHS. 37 CFR 1.84(b) 1 full-tone set is required. Fig(s) Photographs may not be mounted. 37 CFR 1.84(e)		Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.
3.	Poor quality (half-tone). Fig(s)  TYPE OF PAPER. 37 CFR 1.84(e)  Paper not flexible, strong, white, and durable.	10.	Fig(s)
	Fig(s)  Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s)	11	Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality).  Fig(s) 3A 6  SHADING. 37 CFR 1.84(m)
4.	Mylar, velum paper is not acceptable (too thin). Fig(s) SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes: 21.0 cm by 29.7 cm (DIN size A4)		Solid black areas pale. Fig(s)  Solid black shading not permitted. Fig(s)  Shade lines, pale, rough and blurred. Fig(s)
	21.6 cm by 27.9 cm (8 1/2 x 11 inches)  All drawing sheets not the same size.  Sheet(s)	12.	NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p) Numbers and reference characters not plain and legible.
5.	Drawings sheets not an acceptable size. Fig(s) MARGINS. 37 CFR 1.84(g): Acceptable margins:		Fig(s) 3A - C Figure legends are poor. Fig(s) 48-2 - Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)
	Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: A4 Size  Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: 21.7 v 11		Fig(s) English alphabet not used. 37 CFR 1.84(p)(2)
	SIZE: 8 1/2 x 11  Margins not acceptable. Fig(s)		Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3) Fig(s)
6.	VIEWS. 37 CFR 1.84(h) REMINDER: Specification may require revision to correspond to drawing changes.		LEAD LINES. 37 CFR 1.84(q)  Lead lines cross each other. Fig(s)  Lead lines missing. Fig(s)
	Partial views. 37 CFR 1.84(h)(2)  Brackets needed to show figure as one entity.  Fig(s)		NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(1)  Sheets not numbered consecutively, and in Arabic numeral beginning with number 1. Sheet(s)  NUMBERING OF VIEWS 37 CFR 1.84(1)
	Views not labeled separately or properly.  Fig(s)  Enlarged view not labeled separetely or properly.		<ol> <li>NUMBERING OF VIEWS. 37 CFR 1.84(u)         Views not numbered consecutively, and in Arabic numerals beginning with number 1. Fig(s)          CORRECTIONS. 37 CFR 1.84(w)</li> </ol>
7.	Fig(s)  SECTIONAL VIEWS. 37 CFR 1.84 (h)(3) Hatching not indicated for sectional portions of an object.		Corrections not made from prior PTO-948 dated 7. DESIGN DRAWINGS. 37 CFR 1.152
	Fig(s) Sectional designation should be noted with Arabic or Roman numbers. Fig(s)	•	Surface shading shown not appropriate. Fig(s) Solid black shading not used for color contrast. Fig(s)

REVIEWER	J-CHAST	DATE 1-15-03	TELEPHONE NO. 703 505 5430
ATTACHMENT	TO PAPER NO	· ·	

## REMINDER

Drawing changes may also require changes in the specification, e.g., if Fig. 1 is changed to Fig 1A, Fig. 1B, Fig.1C, etc., the specification, at the Brief Description of the Drawing, must likewise be changed. Please make such changes by 37 CFR 1.312 amendment at the time of submitting drawings.

### INFORMATION ON HOW TO EFFECT DRAWING CHANGES

### 1. Correction of Drawings - 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawing should be filed as a separate paper with a transmittal letter addresses to the Official Draftsperson.

#### 2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed change.

### **Timing of Corrections**

Applicant is required to submit the drawings corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in ABANDONMENT of the application.

# **Attachment for PTO-948 (Rev. 03/01, or earlier)**6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

### INFORMATION ON HOW TO EFFECT DRAWING CHANGES

## 1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

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